

FIG. 2

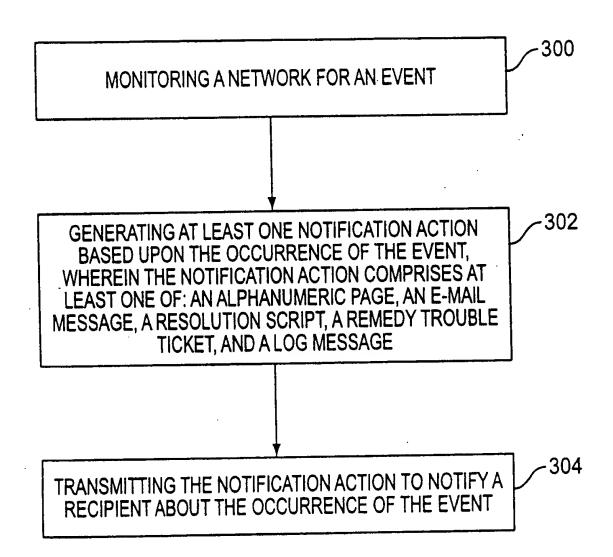


FIG. 3

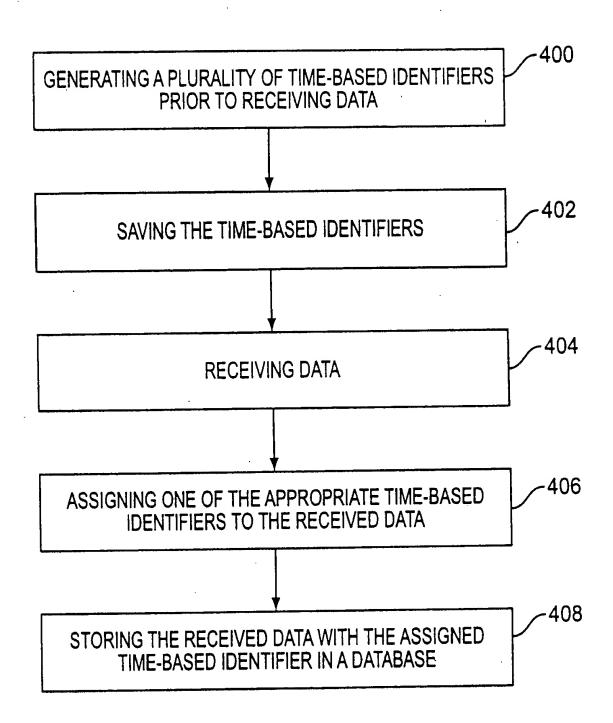


FIG. 4

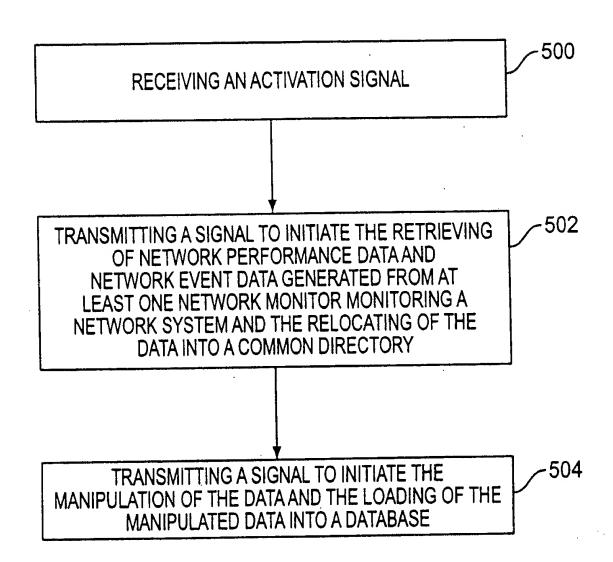
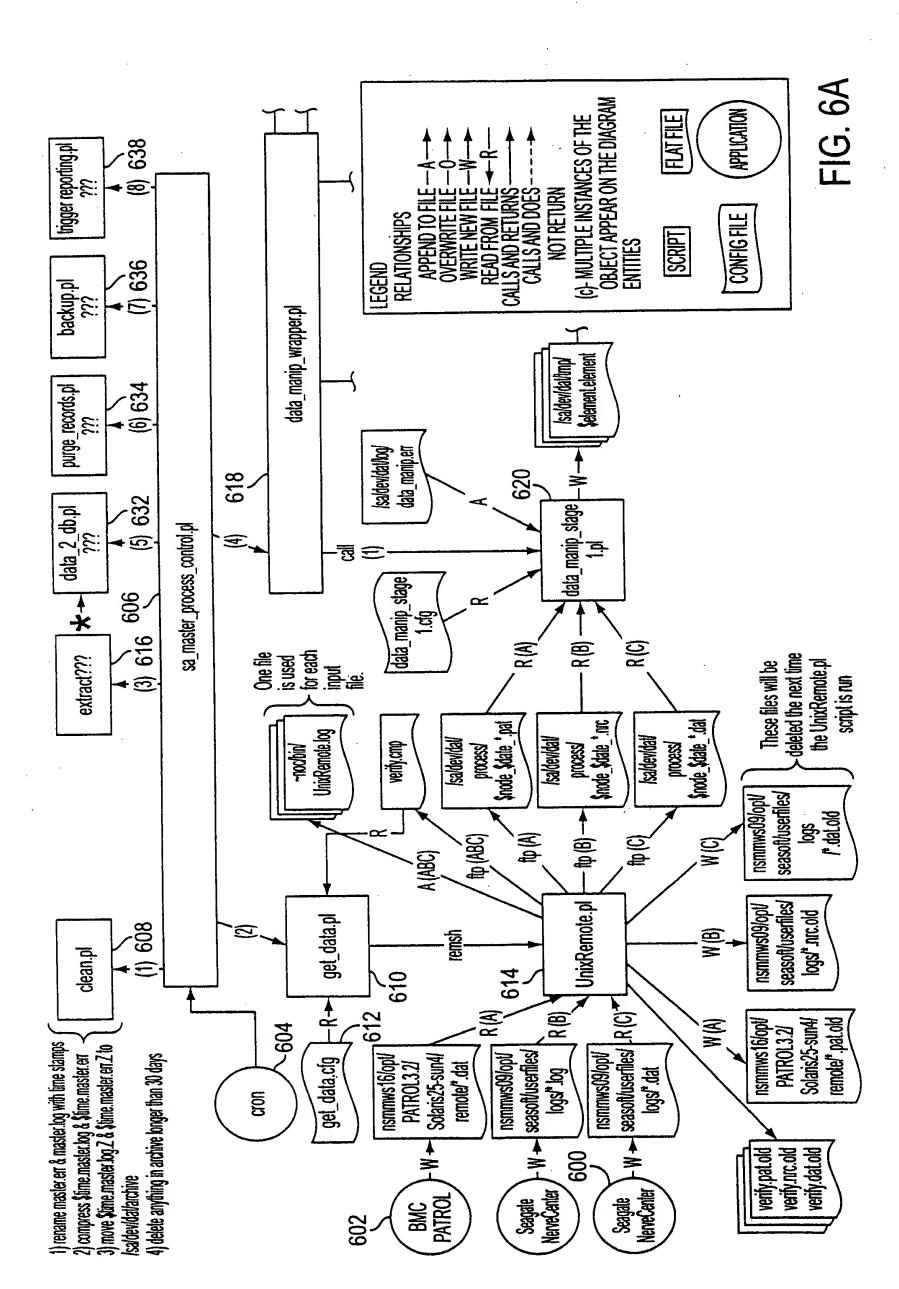
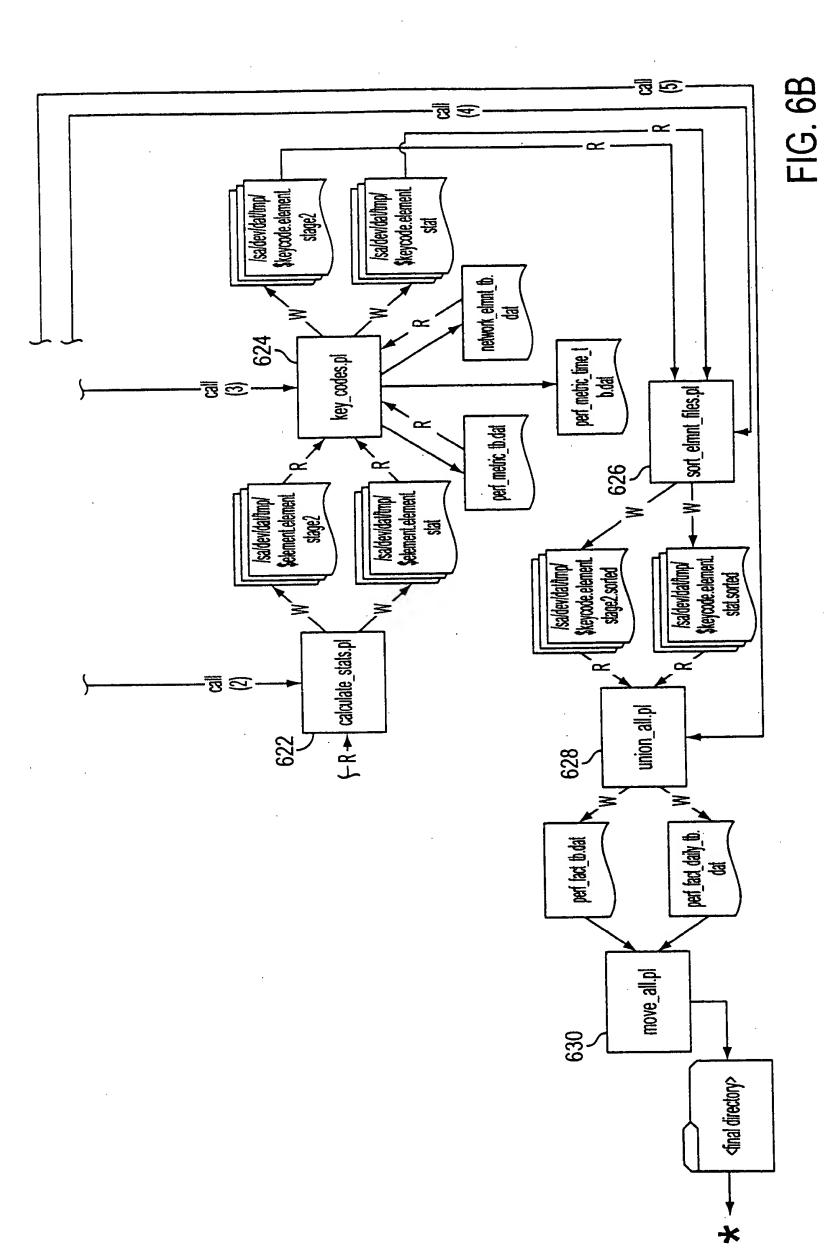


FIG. 5





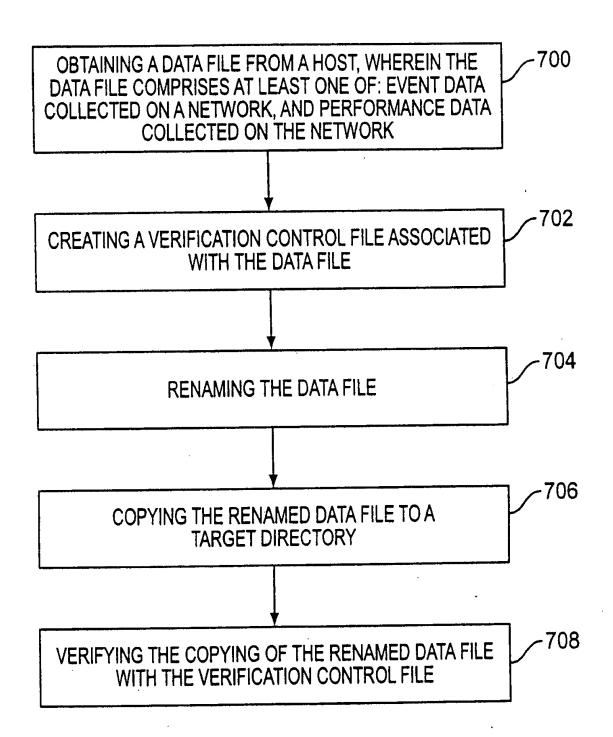
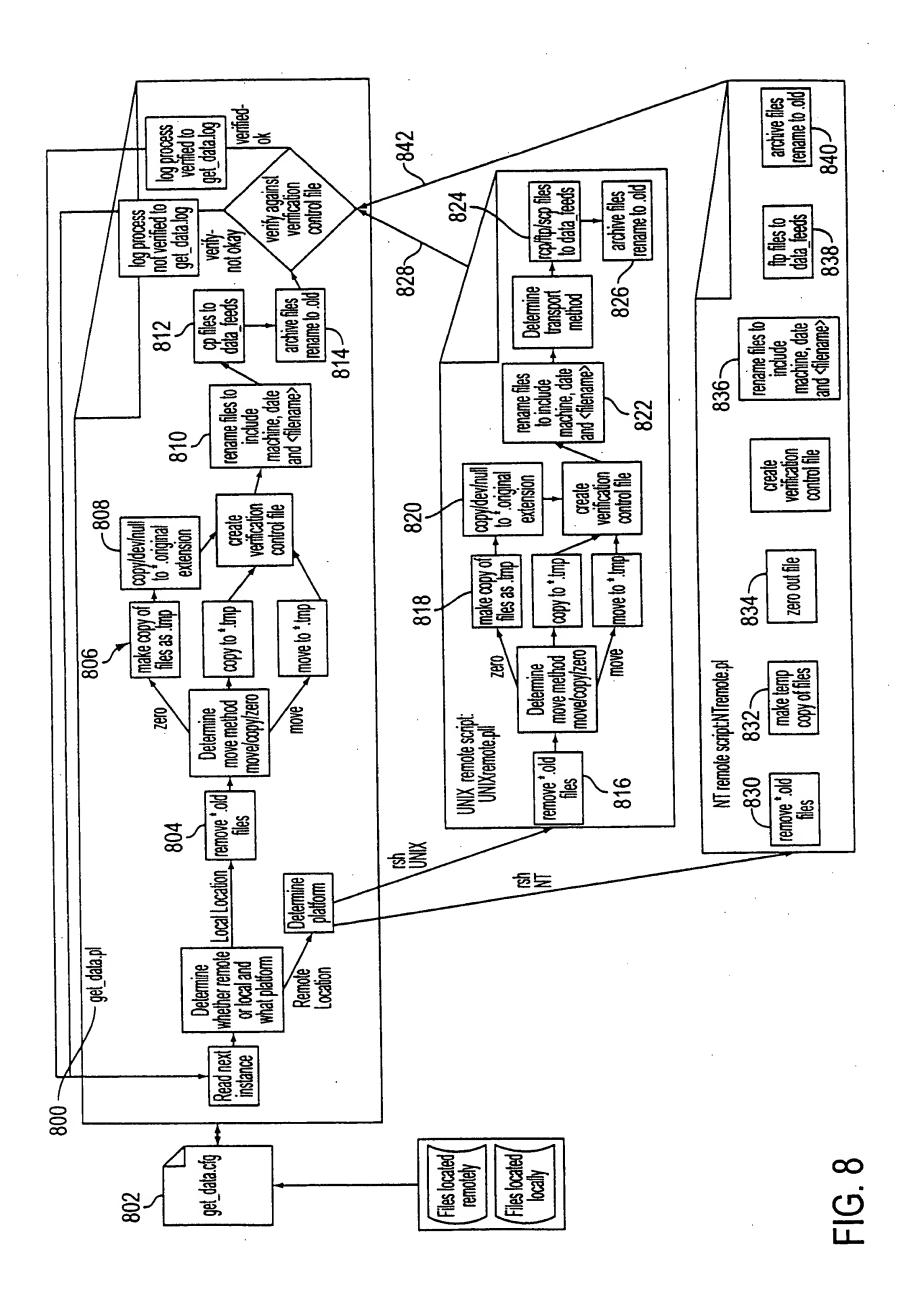
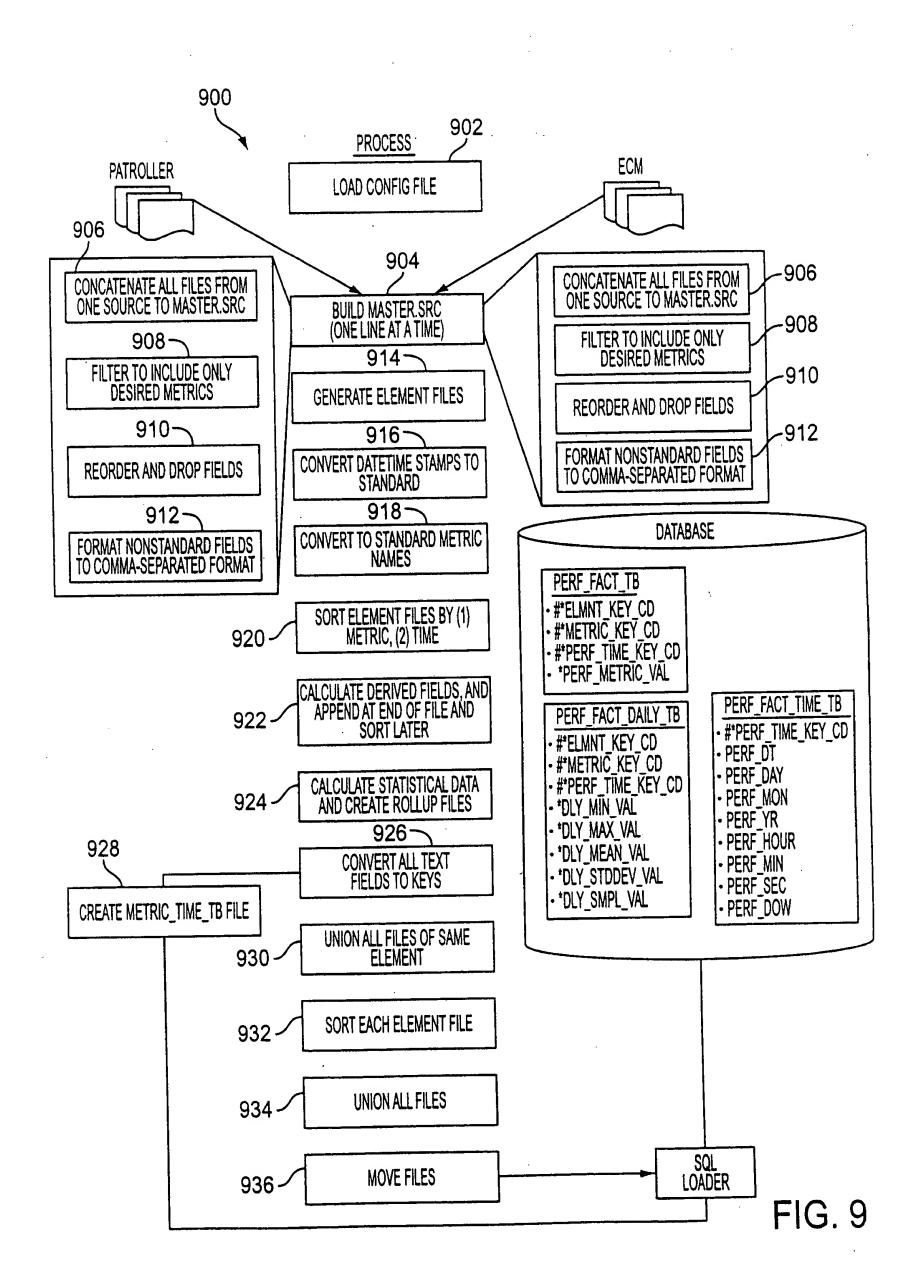


FIG. 7





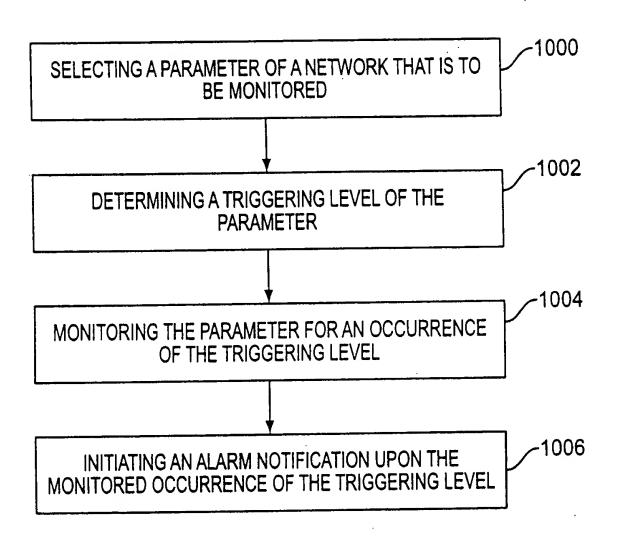


FIG. 10

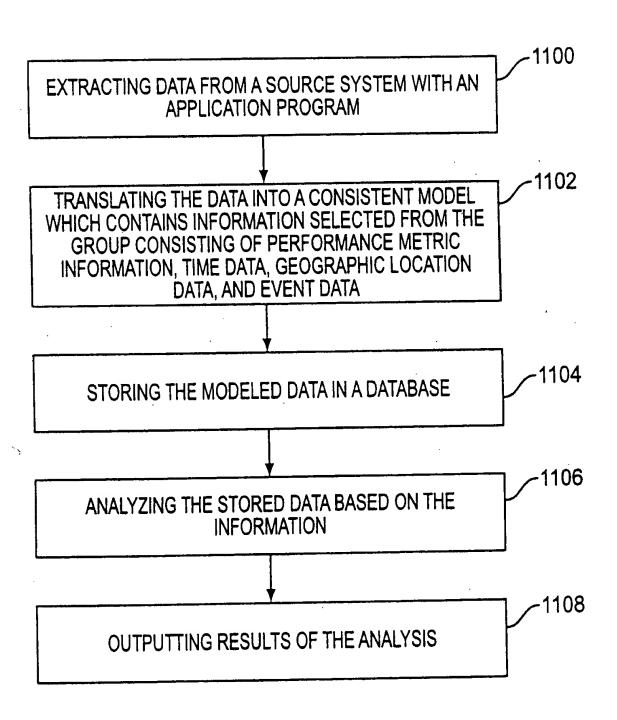


FIG. 11

		· · · · · · · · · · · · · · · · · · ·			·
ENTITY LOCATION					
DATABASE ID	IPSA01	IPSA01	IPSA01	IPSA01	IPSA01
OPERATING SYSTEM	HP-UX 10.2	HP-UX 10.2	HP-UX 10.2	HP-UX 10.2	HP-UX 10.2
DATAFILE SIZE (MB)	100	50	09	20	30
DATAFILE	files5/oradata/IP SA01/IPSA01ipsa dat01.dat	data/IP A01idx	radata/IP SA01syst bf	/files3/oradata/IP SA01/IPSA01tmp 01.dbf	/files2/oradata/IP SA01/IPSA01rbs 01.dbf
RELATED TABLESPACES/ RFI ATIONSHIPS		IPSADAT01/data tablespace	ALL	ALL	ALL
PHYSICAL		Index only			Contains the 4 rollback segments for the database
DEFAULT	On- Line	On- Line	On- Line	On- Line	On- Line
TABLESPACE	IPSADAT01	IPSAIDX	SYSTEM	TEMP01	RBS01

FIG. 12

88,492,983,538 86,418.93	36,168,5/3,638	18,727,103,638 18,288.19	10,006,368,638 9,771.84	5,646,001,138 5,513.67	4,773,927,638 4,662.04	TOTAL SPACE NEEDED (BYTES) TOTAL SPACE NEEDED (MB)
1,638	1,638	1,638	1,638	1,638	1,638	PERF_MĒTRIC_TB
1,285,632,000	1,285,632,000	1,285,632,000	1,285,632,000	1,285,632,000	1,285,632,000	PERF METRIC TIME TB
82,000,000,000	32,800,000,000	16,400,000,000	8,200,000,000	4,100,000,000	3.280,000,000	PERF FACT TB
5,200,000,000	2,080,000,000	1,040,000,000	520,000,000	260,000,000	208.000,000	PERF FACT DAILY TB
2,100,000	2,040,000	1.020,000	510,000	112,500 255,000	20,000 20,000 20,000	NETWORK FIMNT TR
						TOTAL SPACE/TABLE (BYTES)
2,200,000,000	880,000,000	440,000,000	220,000,000	110,000,000	000'000'88	TOTAL RECORDS
200,000,000	80,000,000	40,000,000	20,000,000	10,000,000	8,000,000	TOTAL DAILY ROLLUP RETAINED
200,000	200,000	100,000	20'000	. 25,000	20,000	DAILY ROLLUP RECORDS/DAY
2,000,000,000	800,000,008	400,000,000	200,000,000	100,000,000	000,000,0	TOTAL DETAIL RECORDS
000 000 01	00000	000 000 01				
400	400	400	400	400	400	DAILY ROLLUP DATA RETENTION
9	40	40	40	40	40	DETAIL DATA RETENTION
100	100	100	100	100	9	POLI FREQUENCY
- 00	<b>\$</b>	9	9	9	10	AVERAGE METRICS/FI FMFNT
20,000	20,000	10,000	2,000	2.500	2.000	FLEMENTS

FIG. 13

TABLE	COLUMN	DATA TYPE	COULMN SIZE (BYTES)	ROW SIZE (BYTES)	SPACE USED/ ROW (BYTES)
ELMNT_LOC_TB	ELMNT_LOC_CD ELMNT_CITY_NM ELMNT_STATE_DBRV	Varchar2(5) Varchar2(30) Varchar2(2)	6 31 3	43	45
EVENT_CD_TB	EVENT_CD EVENT_STRING EVENT_AVAIL_TYPE EVENT_PAIR	·		3	11
EVENTS_FACT_TB	ELMNT_KEY_CD PERF_TIME_KEY_CD EVENT_CD EVENT_DURATION EVENT_SEVERITY EVENT_CLASS	Number(10) Number(10)	7 7	17	. 19
NETWORK_ELMNT_TB	ELMNT_KEY_CD ELMNT_NM ELMNT_TYPE_CD ELMNT_VNDR_NM ELMNT_VNDR_MDL ELMNT_VAL_DT ELMNT_LOC_CD	Number(10) Varchar2(20) Varchar2(2) Varchar2(30) Varchar2(20) Date Varchar2(5)	7 21 3 31 21 8 6	100	102
PERF_FACT_DAILY_TB	ELMNT_KEY_CD METRIC_KEY_CD PERF_TIME_KEY_CD DLY_MIN_AMT DLY_MAX_AMT DLY_MEAN_AMT DLY_MEDIAN_AMT DLY_STDDEV_AMT	Number(10) Number(10) Number(10)	7 7 7	24	26
PERF_FACT_TB	ELMNT_KEY_CD   PERF_TIME_KEY_CD   METRIC_KEY_CD   PERF_METRIC_VAL	Number(10) Number(10) Number(10) Number(25,5)	7 7 7 7 15	39	41
PERF_METRIC_TB	METRIC_KEY_CD METRIC_NM METRIC_SRC METRIC_INS METRIC_SUB_INS	Number(10) Varchar2(30) Varchar2(20) Varchar2(30) Varchar2(30)	7 31 21 31 31	124	126
PERF_METRIC_TIME_T	B PERF_TIME_KEY_CD PERF_DT PERF_DAY PERF_MON PERF_YR PERF_HOUR PERF_MIN PERF_SEC PERF_DOW	Number(10) Date Number(2) Number(4) Number(4) Number(2) Number(2) Number(2) Varchar2(9)	7 8 2 2 3 2 2 2 10	370	372

	TIME TO LOAD (DIRECT)	TIME TO LOAD (CONVENTIONAL)	NUMBER OF ROWS LOADED	AMOUNT OF DATA (MB)	COMMENTS
EMPTY	00.04:32	00:30:12	1,048,576	35	TOTOOLIT CAOL MINOTINITY MADE CAOCACTOCACTOCACTOCACTOCACTOCACTOCACTOC
1 MIL ROWS IN TABLE	00:06:29	00:32:57	1,048,576	35	INDEX WAS 10 MB LARGER FOR CONVENTIONAL LOAD. 1713 SUGGEST SOME DEGREE OF FRAGMENTATION OCCURRED DURING LOAD WHICH WOULD REQUIRE WEEKLY INDEX MAINTENANCE
EMPTY TABLE	00:14:49	01:31:47	3,145,728	106	TOPOOLITICATION OF STREET OF STREET
2 MIL ROWS IN TABLE	00:08:49	00:35:49	1,048,576	35	INDEX WAS 30 MB LARGER FOR CONVENTIONAL LOAD. THIS SUGGEST SOME DEGREE OF FRAGMENTATION OCCURRED DURING LOAD WHICH WOULD REQUIRE WEEKLY INDEX MAINTENANCE
EMPTY TABLE	00:30:10	03:05:24	6,291,456	212	ODDED
3 MIL ROWS IN TABLE	00:22:52	01:33:15	3,145,728	901	HAD TO INCREASE THE SIZE OF THE INDEX TABLESPACE IN ORDER FOR THE NEW INDEX AND THE OLD INDEX TO MERGE AT THE END OF DIRECT LOAD.

FIG. 15

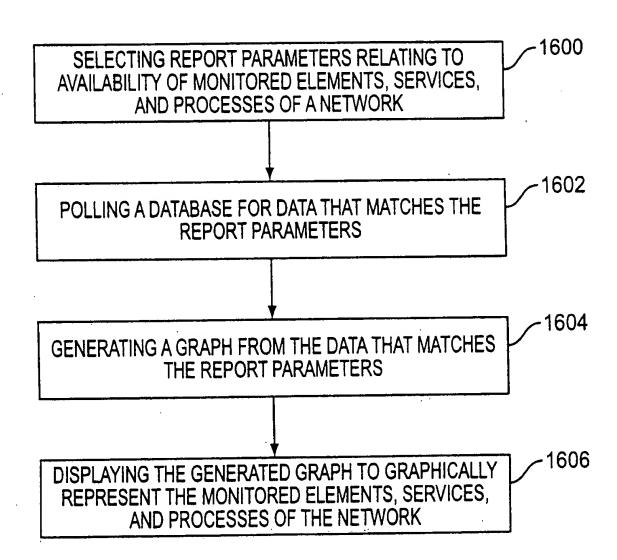


FIG. 16

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Select Metric Class - Netacape		<u> </u>	IE
Edit Yiew Go Communicator Help		Call & MA and a Dalaya	-
Bookmarks D Location: [http://nsmmpe33/cgi-bin	vadhoc.pl /	₩hat's Related	
enne Armer/			-
Adhoc Reporting	1		
Adnot Roporting			
			_
			-
lease choose a Metric Class			_
lease choose a Metric Class	<b>-17</b> 02		_
	-1702		
	-1702		
ietwork Element Performance Next	-1702		
ietwork Element Performance Next	-1702		
ietwork Element Performance Next	-1702		
ietwork Element Performance Next Daily Rollup Statistics Element Availability	-1702		
letwork Element Performance Next Daily Rollup Statistics Element Availability Events	-1702		
letwork Element Performance Next laily Rollup Statistics lement Availability vents	-1702		
letwork Element Performance Next laily Rollup Statistics lement Availability livents atternet Application Performance	-1702	·	
letwork Element Performance Next  ally Rollup Statistics lement Availability vents ternet Application Performance IT Server Performance	-1702		
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ietwork Element Performance Next  Paily Rollup Statistics  Ilement Availability  Iterated Application Performance  It Server Performance  It Server Performance  Increase Availability	-1702		
ietwork Element Performance Next  Paily Rollup Statistics  Ilement Availability  Iterated Application Performance  It Server Performance  It Server Performance  Increase Availability	-1702	·	
Next Network Element Performance Next Next Next Next Next Next Next Nex	-1702		

FIG. 17A

F	♥ Performance Charting - Netscape	
	File Edit View Go Communicator Help  **Bookmanus	▼ 📶 What's Related 🔃
	Network Element Performance	
4740	Please choose a report type  Network Element Performance   ▼	
1710	T rend Boxplot   Next   Comparison Boxplot   Detail XY Line Graph   Trend Boxplot	

FIG. 17B

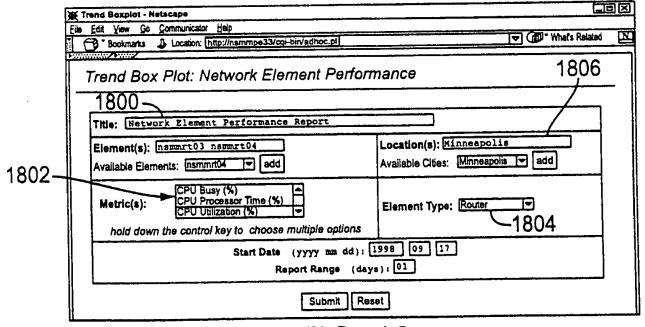


FIG. 18

Notes								
Object and Report columns list	. The Object and Report columns list all the daily batch report types required	-86						
e total number of daily batch repo	2. The total number of daily batch reports is listed in the column Batch Report Oty	ort Oty						
ch batch report is one of seven (	3. Each batch report is one of seven Generic Report Types detailed on sheet 2	31.2						
ta collection requirements driven	4. Data collection requirements driven by each report are given for Snmp and Patrol Metrics	nd Patrol Metrics						
5. The reports marked with an asterisk (*) are optional for Phase 2	((*) are optional for Phase 2							
								177
	tou.	Conoric Ronart Tuno	Graph type	v axis units	v axis range	x axis units	x axis range	report afy
na)acı	Nepol .	2,16.						
Router Ciem 7500	CPU Utilization Daily Detail	Daily detail	x-y line	%	0-100	hours	24	2
	CPI I Hiization Daily Comparison	LO LO	boxolot	%	0-100	nodes	all routers	
	CPU Utilization Trend			%	0-100	days	8	2
	Router Exceptions	n spectrum	spectrum	elements	all elements	hours	24	
Router Interfaces WAN	Interface Utilization Daily Detail	Daily detail, n sub-objects	x-y line	%	0-100	hours	74	2
	Interface Utilization Trend	Monthly trend	boxplot	%	0-100	days	R	7
	Interface Utilization Daily Detail	sub-objects	x-y line	packets/sec	0-ifSpeed	hours	24	2
	Interface Utilization Trend		boxplot	packets/sec	0-iRpeed	days	30	
	Response Time Daily Detail*	sub-objects :	x-y line	seconds	0-ifSpeed	hours	24	0
	Response Time Trend*		boxplot	seconds	0-iSpeed	days	8	0
	Response lime Irend*	Monthly Trend	חמלמו	Security	ASSOCIATION OF THE PROPERTY OF		of pa	

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					·
	Naming standard:				
	Control Control				
	Database variable name				
Batch report requirements	y axis metric name	SNNP metrics	Patrol metrics	Patrol Collector	Max/Min Precision
Two router reports daily	CpuBusy Percent	busyPer	WA	NA	
One report daily,	Cullusy Person	busvPer	NA	NA	
Two router trend reports daily	Coubusy Percent	busyPer	NA	NA	
One report daily, showing	. N	ΑN	, AN	NA	
CACCHUOIS TOI THE FOUNCIS					
Two router reports daily, each showing two interfaces	InterfaceUtilization Percent	ifinOctects, ifOutOctets, ifSpeed	NA	NA	
Four interface renorts daily	InterfaceUtilization Percent	iffnOctects, ifOutOctets, ifSpeed	NA	NA	
Two router reports daily, each showing two interfaces	InterfaceUtilization_BPS	ifinOctets, irOutOctets, irSpeed	NIA	NA	
Four interface reports daily	-InterfaceUtilization BPS	ifinOctets, ifOutOctets, ifSpeed	NA	NA	
The production in the second s	INA	NA	NIA	NIA	
		NIA	NA	NA	

Line Daily Daily
Daily detail
Monthly trend
Monthly trend
Daily detail
Monthly trend
Daily detail
Monthly trend
Daily exception spectrum
Daily detail :
Monthly trend
Daily detail ·
<b>5</b>
Daily detail
Monthly trend
Daily detail
Monthly trend
Daily exception
Daily availability bar chart
Daily availability spectrum
Daily availability bar chart 🗀 bar

One server report daily Coulditization Percent	N.	CPUCpuUtil	VMColl	0/100 - #:##
	NA	CPUCouUtil	VMColl	0/100 - #:###
	NA	MEMFreeMem	VMColl	##### - +/O
	N.	MEMFreeMem	VMColi	#####-+/0
	<b>≥</b>	NETPacketsln, NETPacketsOut	NETColl	#### + +/0
	N/A		NETColl	###-+10
	N.	DSKPercentBusy		0/100 - #:###
	ΑN	DSKPercentBusy		01100 - #:###
wing	<b>≨</b>	NIA	NA	
One server report daily		CPUprorProcessorTimePercent	CPUProcessorColl	0/100 - #:###
		CPUprcrProcessorTimePercent	CPUProcessorColl	0/100 - #:##
		MEMmemAvailableBytes	MEMMemoryColl	14-###
		MEMmemAvailableBytes	MEMMemoryColl	####
		NETniPcktsPerSec	NETNetworkInterfaceColl	##:#-+10
		NETniPcktsPerSec	NETNetworkInterfaceColl	###-+10
		PDpdDiskTimePercent	PDPhysicalDiskColl	0/100 - #:###
One server report daily,		PDpdDiskTimePercent	PDPhysicalDiskColl	0/100 - #:###
One report daily, showing	NA	NA	NA	NA
One report showing all elements N/A	NA	N/A	NA	NA
One report showing all elements N/A	NA	NA	NA	NA
One renort showing 5 ISP ands	N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/	NIA	INIA	NA

ा	<del></del> 1	0	.;:: <del>←</del>	0	ा	<b>ा</b>	ा	0	ठा	ा	ना			
													8	
74	all services	24	N.										Total	
hours	services	hours	NA											
all processes	0-100	all services	¥N	0-max value	0-max value	0-max value	0-max value	0-max value	0-max value	0-max value	0-max value		•	
processes	%	services	× ×	seconds	seconds	seconds	spucoas	seconds	seconds	seconds	seconds			
spectrum	bar	spectrum	tex	x-y line	boxplot	x-y line	boxplot	x-y line	boxplot	x-y line	poxplot			
Daily availability spectrum :   spectrum	Daily availability bar chart bar	Daily availability spectrum spectrum	Textual list of all events	Daily detail	Monthly trend	Daily detail	Monthly trend	Daily detail	Monthly trend	Daily detail	Monthly trend	•		
Process Availability Spectrum*	Service Availability Bar Chart	Service Availability Specifrim*	Daily Evontion Range	FTP Response Time Daily Detail*	FTP Response Time Trend*	SMTP Response Time Daily Detail*	SMTP Response Time Trend*	NNTP Response Time Daily Detail*	NNTP Response Time Trend*	HTTP Response Time Daily Detail*	HTTP Response Time Trend*			
				All Unjects (tauti iligility										

FIG. 19E

One renort chowing 5 ISP anns.	VN N	NA	NA	NA	NIA
One report showing 5 ISP anns		NA	NA	NIA	NIA
One report showing 5 ISP apps : :		NA	NA	NA	NA
One report daily	VN	NA	NA	N	NA
	FtoResponseTime Seconds	NA	ftpResponseTime	fpMonitor	
	FtpResponseTime Seconds	NIA	ftpResponse Time	fpMonitor	
	SmtpResponseTime Seconds	NA	smtpResponseTime	smtpMonitor	,
	SmtpResponseTime Seconds	NA	smtpResponseTime	smtpMonitor	
One report daily	NntpResponseTime Seconds	NA	nntpResponseTime	nntpMonitor	
One report daily	NntoResponseTime Seconds	NA	nntpResponseTime	nntpMonitor	
One report daily	HttpResponseTime Seconds	NA	httpResponseTime	httpMonitor	·
One report daily	HttpResponseTime_Seconds	NA	httpResponseTime	httpMonitor	

FIG. 19F

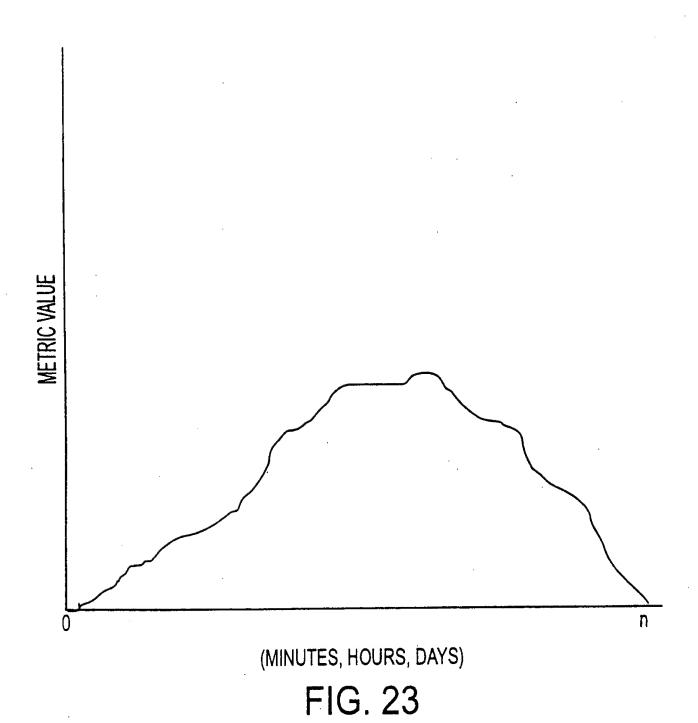
NOTES						
<ol> <li>"Object" may refer to an element, process, or service.</li> </ol>	nt, process, or s					
Generic Report Type	Graph Type	iption	Scope	X-axis		Y-axis
				Units	Range	Units
Daily Detail	XY line graph	Shows all samples of a single metric from a single object over one day	1 object, 1 metric	Hours& minutes	24 hours	Metric value
Daily Defail. N Sub-objects	XY line graph	Shows all samples of multiple metrics from a single object over one day	n objects, 1 metric	Hours & minutes	24 hours	Metric value
Daily Object Comparison	Boxplot	Compares distributions of a single metric across multiple objects for one day	n objects, 1 metric	Objects (	n objects	Metric value
Monthly Trend	Boxplot	Shows changes in distributions of a single metric over one month	1 object, 1 metric	Days	30 days	Metric value
Daily Availability Bar Chart	Bar Graph	Compares percent availability for multiple services or objects for one day	n objects, 1 availability	Objects	n objects	Percent
Daily Exception Spectrum	Spectrum	Shows exceptions for multiple objects as points over time.	n objects, n exceptions	Hours & minutes	24 hours	Objects
Daily Exception Text Report	Text List	Text list of all events over one day, with columns for date-time, event string, code, and severity.	n objects, n exceptions	NIA	NIA	NA
Daily Availability Spectrum*	Spectrum	Shows up/down status as a continuous color-coded lineover time: red=down, green=up.	n objects, 1 availability	Hours & minutes	24 hours	Objects
חשות שוות שוות שוות שוות שוות שוות	200					

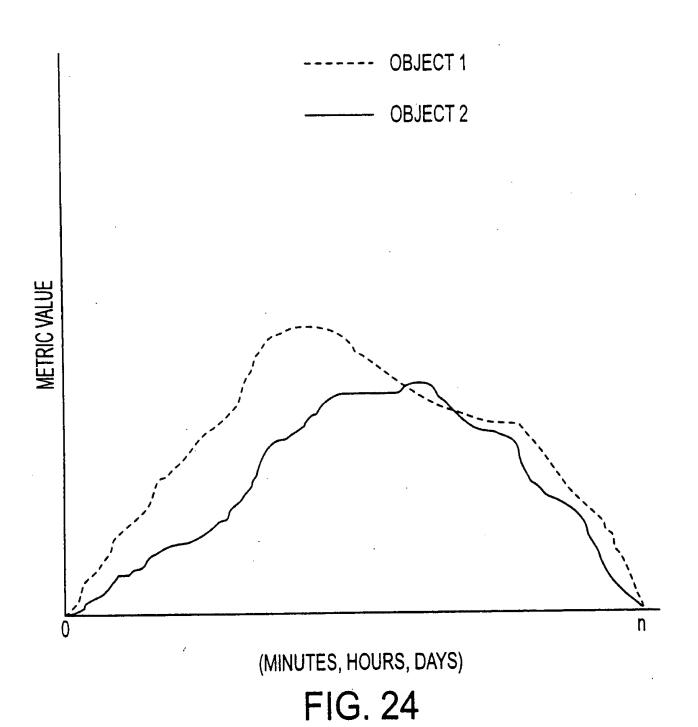
1st Menu choice	2nd menu choice	3rd menu choice Ath menu choice	1	5th menu choice	choice 6th menu choice 7th menu choice Metrics(s)	7th menu choice	Metrics(s)
Select Metric Class	Select Report Type	Select Element(s)	Select Element(s) Select Location(s) Select sta	Select start date	rt date # of days		
default	WA	- To		yesterday	1		
Element Availability	Percent Availability Bar Graph   celement name>	<element name=""></element>	<element location=""></element>	<start date=""></start>	<days></days>		NA
Service Availability	Percent Availability Bar Graph   celement name>	<element name=""></element>	<element location="">   <start date=""></start></element>		<days></days>	<sevice></sevice>	NA
Process Availability	Percent Availability Bar Graph   celement name>	celement name>	<element location=""></element>	<start date=""></start>	<days></days>	<pre>       <br <="" th=""/><th>NA</th></pre>	NA
Events	Exception Spectrum	<element name=""></element>	<element location=""></element>	<start date=""></start>	<days></days>		N/A
Network Element Performance	Detail XY Line Graph	<element name=""></element>	<element location=""></element>	<slart date=""></slart>	<days></days>	*	Cpu Utilization (busyper)
	Trend Boxplot	<element name=""></element>	<element location=""></element>	<start date=""></start>	<days></days>		Cpu Utilization (busyper)
	Comparison Boxplot	<element name=""></element>	<element location=""></element>	<start date=""></start>	<days></days>		Cpu Utilization (busyper)
Router port/WAN Performance	Detail XY Line Graph	celement name>	<element location=""></element>	<start date=""></start>	<skep></skep>	<instance></instance>	Interface Utilization (iffn/OutOctects)
	Trend Boxplot	<element name=""></element>	<element location=""></element>	<start date=""></start>	<skep></skep>	<instance></instance>	Interface Utilization (ifln/OutOctects)
	Comparison Boxplot	<element name=""></element>	<element location=""></element>	<start date=""></start>	<days></days>	<instance></instance>	Interface Utilization (filin/OutOctects)
Unix Server Performance	Detail XY Line Graph	celement name>	<element location=""></element>	<start date=""></start>	cdays>	<instance></instance>	Cpu Utitization, Memory Utilization, Network Utilization, Disk Percent Busy
	Trend Boxplot	<element name=""></element>	<element location=""></element>	<start date=""></start>	<skep></skep>	<instance></instance>	Cpu Utilization, Memory Utilization, Network Utilization, Disk Percent Busy
	Comparison Boxolot	<element name=""></element>	<element location=""></element>	<start date=""></start>	<days></days>	<instance></instance>	Cpu Utilization, Memory Utilization, Network Utilization, Disk Percent Busy
NT Server Performance	Detail XY Line Graph	<element name=""></element>	<element location=""></element>	<start date=""></start>	<s ep=""></s>	<instance></instance>	Cpu Utilization, Memory Utilization, Network Utilization, Disk Percent Busy
	Trend Boxplot	<element name=""></element>	<element location=""></element>	<start date=""></start>	<skep></skep>	<instance></instance>	Cpu Utilization, Memory Utilization, Network Utilization, Disk Percent Busy
	Comparison Boxplot	<element name=""></element>	<element location=""></element>	<start date=""></start>	<days></days>	<instance></instance>	Cpu Utilization, Memory Utilization, Network Utilization, Disk Percent Busy
Internet Application Performance Detail XY Line Graph	*Detail XY Line Graph	<element name=""></element>	<element location=""></element>	<start date=""></start>	<days></days>		Response Time
	Trend Boxplot	celement name>	<element location=""></element>	<start date=""></start>	cdays>		Response Time
	Comparison Boxplot	<element name=""></element>	<element location=""></element>	<start date=""></start>	<days></days>		Response Time
Daily Rollup Statistics	Detail XY Line Graph	Kelement name	<element location=""></element>	<start date=""></start>	cdays>	<metric name=""></metric>	<rollup statistic=""> (min, max, mean, std dev, sample size)</rollup>

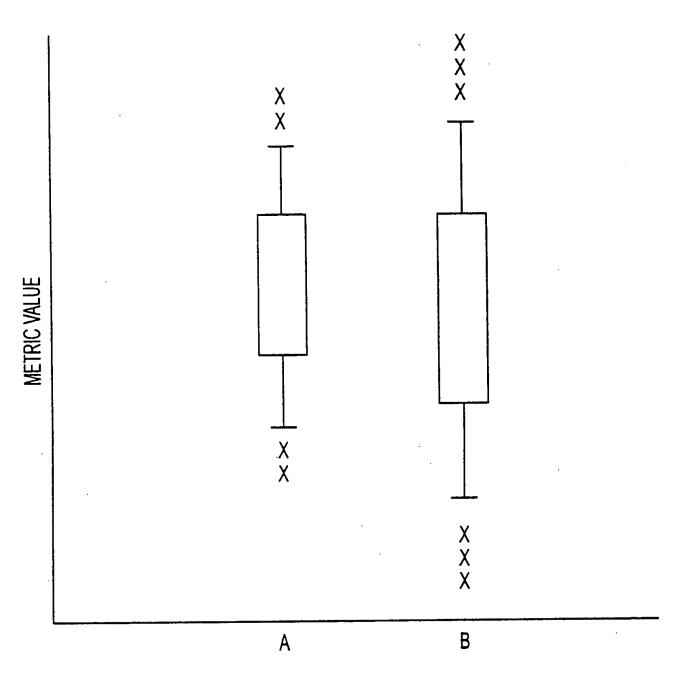
FIG. 2

SUMP/PATROL METRICS	DESCRIPTION	PLATFORMS	UNITS	
	Provides the percent of CPU usage over the first 5 second period in the	-	onojaovaoa	
busyPer	scheduler.	Kouter	percentage	
	The total number of octets received on the	Router Interface	octets	
IIIIOCIEIS	Illiciate, illuming halling dialacters.			
	The total number of octets transmitted out of the interface, including framing		-1-t-	
ifOutOctcets	characters.	Kouter interface	00(1613	
	An estimate of the interface's current bandwidth in bits per second. For			
	interfaces which do not vary in bandwidth or for those where no accurate		-	
ifSpeed	estimation can be made, this object should contain the nominal bandwidth.	Router Interface	bits per second	
CPUCoutil	Displays the percentage of CPU utilization.	UNIX	percentage	
MEMFreeMem	Displays the number of pages of memory available.	UNIX	pages	
NETPacketsIn	Displays the total number of incoming packets within a sample interval.	NIX	packets	
NETPacketsOut	Displays the total number of outgoing packets within a sample interval.	UNIX	packets	
	Displays the percentage of time that the device is busy servicing a transfer			·
DSKPercentBusy	request.	UNIX	percentage	
	Displays a percentage of the etapsed time that a processor is busy	ļ	-	
CPUprarProcessorTimePercent	executing a non-idle thread.	Z	percentage	
	Displays the size of the virtual memory currently on the zeroed, free, and			
MEMmemAvailableBytes	standby memory lists.	Z	megabytes	
NETniPcktsPerSec	Displays the rate that the packets are sent and received on the network.	M	packets per second	
	Displays the percentage of elapsed time that the disk spends servicing read	!	-	
PDpdDiskTimePercent	or write requests.	Z	percentage	

FIG. 22

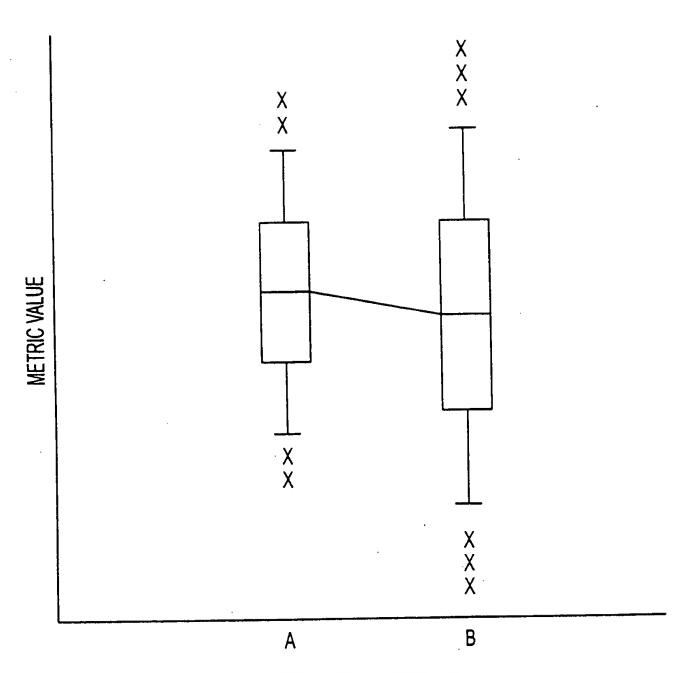






(ELEMENTS, INSTANCES)

FIG. 25



(DAYS, WEEKS, MONTHS)

FIG. 26

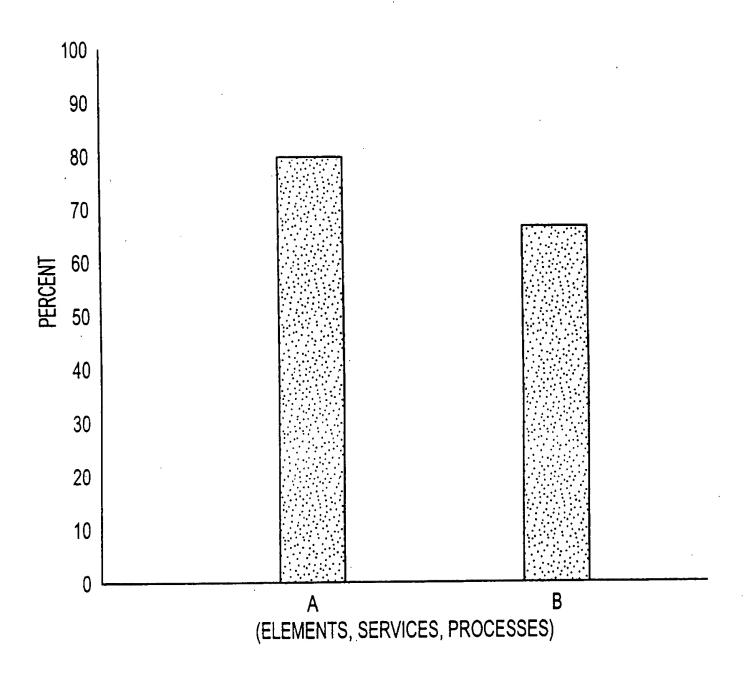


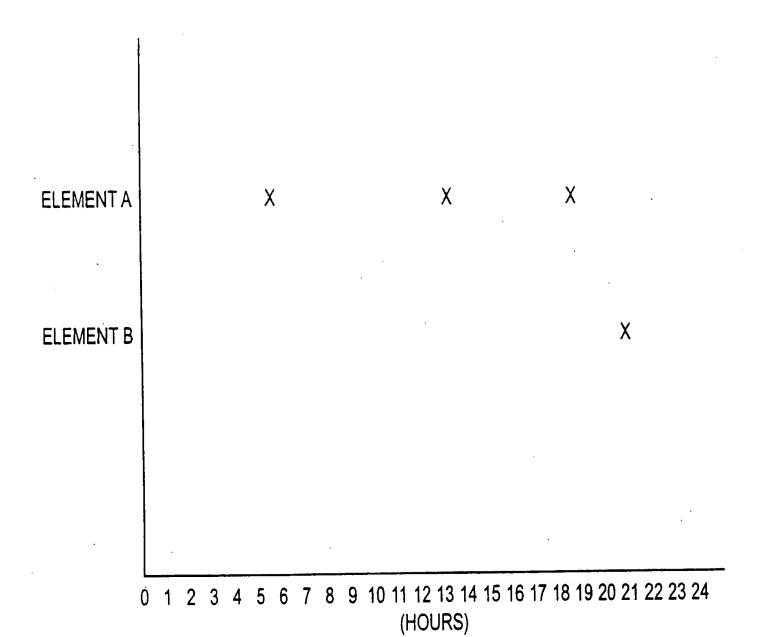
FIG. 27

ELEMENT A

XXXOOXXXXXXXOOXXXXXXXXXXOOOOXXX 71%

**ELEMENT B** 

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 (HOURS)



Date-Time	Elen	nentEvent	string	Duration	Severity
01/12/1998 06:34:12 Critical	nsmi	nws16	CPU Utilization over 80%		
01/12/1998 08:01:23 01/12/1998 16:54:52	nsmmws09 twmmnt02	Host of	down service down	3:24:43 Critical 0:19:42 Critical	·

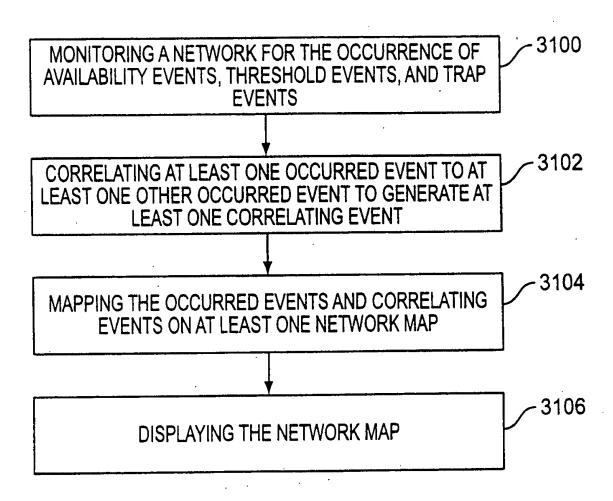
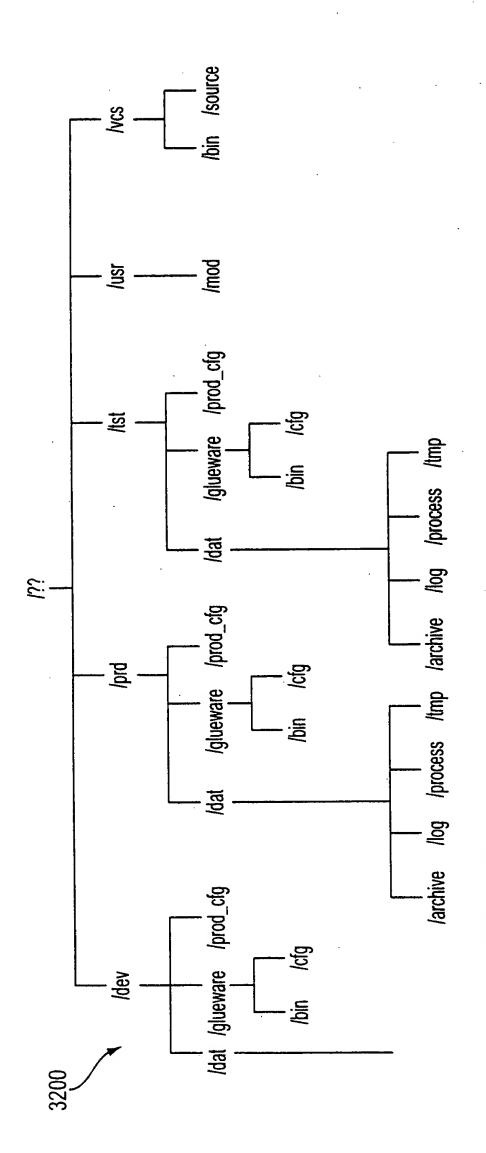


FIG. 31



CURRENT SETTINGS/VALID VALUES

Directory structure will be stored on ucmmfs02

The directory /sa will be the mount point to
nsmmws09, nsmmws16, and twmmdb02

Files owned by with group of twsa

FIG. 32